

Applic. No. 10/045,138
Amdt. dated January 6, 2004
Reply to Office action of October 6, 2003

Claim Amendments

Claim 1 (currently-amended): A device for registering the position of a rotor part in a transport system also having a static part in addition to the rotor part, comprising a dimensional standard having a length and including a position point, said dimensional standard having a pattern with a specific fine resolution and forming part of the rotor part, and a plurality of transmitters each having a respective position point and being provided on the static part disposed along a position coordinate line of a position coordinate, said plurality of transmitters detecting said pattern of said dimensional standard, and defining a spacing between two successive transmitters along said position coordinate line being at most equal to said length of said dimensional standard.

Claim 2 (cancelled)

Claim 3 (currently-amended): The position registering device according to claim [[2]] 1, wherein respective pairs of said plurality of transmitters arranged successively along said position coordinate line have at least approximately the same mutual spacing.

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Claim 4 (cancelled).

Claim 5 (original): The position registering device according to claim 1, wherein said transmitters are magnetic field detectors, and said dimensional standard has a magnetic pattern.

Claim 6 (original): The position registering device according to claim 1, wherein said transmitters are optical detectors, and said dimensional standard has a pattern for causing a variation in intensity of incident light.

Claim 7 (currently-amended): The position registering device according to claim [[2]] 1, wherein at least one of said transmitters serves for generating an output signal, which, at least on an interval of said position coordinate, in an environment around said one transmitter, is a monotonic function of said position point of said dimensional standard.

Claim 8 (original): The position registering device according to claim 7, wherein said interval has a given length of said position coordinate of said dimensional standard for which, when said position point of said dimensional standard is in said interval, at least a first one of said transmitters serves for generating a first output signal, and at least a

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second one of said transmitters, which follows said first transmitter, serves for generating a second output signal.

Claim 9 (currently-amended): The position registering device according to claim 8, wherein said first transmitter is surrounded by an environment wherein said ~~first~~ interval is located and from which said position point of said second transmitter is absent, and said second transmitter is surrounded by an environment wherein said first interval is located and from which said position point of said first transmitter is absent.

Claim 10 (original): The position registering device according to claim 1, including a transmitter selected from the group thereof consisting of at least one reference pulse transmitter and at least one absolute transmitter.

Claim 11 (original): The position registering device according to claim 10, wherein, respectively, two reference pulse transmitters arranged along said position coordinate line have at least approximately the same mutual spacing.

Claim 12 (original): The position registering device according to claim 11, wherein said spacing between two successive reference pulse transmitters, respectively, along

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said position coordinate line is at most equal to the spacing between two successive transmitters.

Claim 13 (original): The position registering device according to claim 1, wherein a first position point of said position coordinate of said dimensional standard coincides with a second position point of said position coordinate of said dimensional standard.

Claim 14 (original): The position registering device according to claim 13, wherein two successive transmitters, respectively, a transmitter with a minimum index and a transmitter with a maximum index have at least approximately the same mutual spacing.

Claim 15 (original): The position registering device according to claim 13, wherein two successive reference transmitters, respectively, a reference transmitter with a minimum index and a reference transmitter with a maximum index have at least approximately the same mutual spacing.

Claim 16 (currently-amended): A printing unit having a device for registering the position of a rotor part in a transport system also having a static part in addition to the rotor part, comprising a dimensional standard having a length, a

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pattern with a specific fine resolution, and forming part of the rotor part, and a plurality of transmitters provided on the static part disposed along a position coordinate line of a position coordinate, said plurality of transmitters detecting said pattern of said dimensional standard, and defining a spacing between two successive transmitters along said position coordinate line being at most equal to said length of said dimensional standard.

Claim 17 (currently-amended): A printing machine including a printing unit having a device for registering the position of a rotor part in a transport system which also has a static part in addition to the rotor part, comprising a dimensional standard having a length, a pattern with a specific fine resolution, and forming part of the rotor part, and a plurality of transmitters provided on the static part disposed along a position coordinate line of a position coordinate, said plurality of transmitters detecting said pattern of said dimensional standard, and defining a spacing between two successive transmitters along said position coordinate line being at most equal to said length of said dimensional standard.

Claim 18 (currently-amended): A printing machine comprising a feeder, at least one printing unit, a unit selected from the

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group consisting of a delivery unit and a post-processing unit, and at least one transport system having a device for registering the position of a rotor part in said transport system, said transport system also having a static part in addition to said rotor part, and including a dimensional standard having a length, a pattern with a specific fine resolution, and forming part of the rotor part, and a plurality of transmitters provided on the static part disposed along a position coordinate line of a position coordinate, said plurality of transmitters detecting said pattern of said dimensional standard, and defining a spacing between two successive transmitters along said position coordinate line being at most equal to said length of said dimensional standard.